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Amendments to the Claims

1. (Currently Amended) A flat vibration motor comprising:

an upper case;

a lower case;

a conductive substrate formed on an upper surface of the lower case;

a magnet formed on the upper surface of the lower case, for generating

magnetic field;

a conductive brush having an end electrically connected with the

substrate;

a rotational shaft supported at an approximate center portion between

the lower case and the upper case;

a rotator inserted onto the rotational shaft to rotate and formed of a

resin base;

a commutator formed on a lower surface of the rotator and connected to

the other end of the brush; and

a coil having an upper end, which is positioned lower than an upper end

of the rotator;

wherein the rotator is made of insert injection molding in which the coil

is placed covers all of the back side and outer circumference of the coil.

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2. (Original) The flat vibration motor of claim 1, wherein the coil is

fixed to the base by an insert injection molding.

3. (Original) The flat vibration motor of claim 1, further comprising

a weight formed eccentrically inside the rotator, for enhancing eccentricity of

weight center of the rotator.

4. (Original) The flat vibration motor of claim 1, wherein the coil is

fixed by the base.

5. (Original) The flat vibration motor of claim 1, wherein the coil is

received inside the base so that the coil is firmly fixed when heated.

6. (Original) The flat vibration motor of claim 1, wherein the coil is

received inside the base so that the coil is not observed at an upper surface of

the rotator.

7. (Currently Amended) A flat vibration motor, comprising:

a case;

a rotational shaft standing at a center portion of the case;

a_coil;

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a rotator formed upon a circumference of the rotational shaft and made of resin in which the coil is placed that covers all of the back side and outer circumference of the coil;

a the coil recessed into the rotator so that the coil is firmly fixed when heated; and

a power supply means for supplying a predetermined electric power to the coil.

- 8. (Original) The flat vibration motor of claim 7, wherein the coil is formed on the base by insert injection molding.
- 9. (Original) The flat vibration motor of claim 7, further comprising: a weight formed eccentrically inside of the rotator, for enhancing eccentricity of weight center of the rotator.
- 10. (Original) The flat vibration motor of claim 7, wherein the coil has an upper portion formed at a position lower than an upper portion of the rotator so that the coil is firmly fixed when heated.
- 11. (Original) The flat vibration motor of claim 7, wherein the power supply means comprises:

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a substrate formed on a surface of the case; and

a brush having both ends connected to the substrate and the rotator.

12. (Original) The flat vibration motor of claim 7, wherein the power supply means comprises:

a lower insulating fixer formed on a surface of the case;

a conductive terminal formed a lower surface of the lower fixer; and

a brush penetrating the lower fixer and having both ends connected to

the terminal and the rotator.

13. (Currently Amended) A flat vibration motor, comprising:

an upper case having an open lower side;

a lower insulating fixer formed on the lower side of the upper case;

a magnet formed on an inner bottom surface of the upper case, for

generating magnetic field;

a rotational shaft standing at a center portion of the upper case and the

lower fixer;

a_coil:

a rotator inserted onto the rotational shaft and formed of base made of

resin, for rotating, that covers all of the back side and outer circumference of

the coil;

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a conductive terminal formed a lower side of the lower fixer;

a brush penetrating the lower fixer and having an end connected to the terminal and the other end connected to a commutator formed on a lower side

of the rotator; and

a the coil having an upper portion formed at a position lower than an

upper portion of the rotator.

14. (Original) The flat vibration motor of claim 13, wherein the coil is

formed on the base by insert injection molding.

15. (Original) The flat vibration motor of claim 13, further

comprising:

a weight formed eccentrically inside of the rotator, for enhancing

eccentricity of weight center of the rotator.

16. (Original) The flat vibration motor of claim 13, wherein the coil is

received inside the base so that the coil is firmly fixed when heated.

17. (Original) The flat vibration motor of claim 13, wherein the coil is

received inside the base so that the coil is not observed at an upper surface of

the rotator.

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18. (Currently Amended) A flat vibration motor, comprising:

a case;

a rotational shaft standing inside the case;

a rotator placed upon a circumference of the rotational shaft to accept a coil so that all of the back side and outer circumference of the coil are covered by the rotator;

a coil received in the rotator so that the coil is not exposed to exterior;

a commutator and a brush for supplying a predetermined electric power to the coil;

wherein the rotator is made of insert injection molding in which the coil is placed.

19. (Original) The flat vibration motor of claim 18, wherein the coil is formed on the base made of resin by insert injection molding.